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FI - C04B35/66&A
FT - 4G033/AA02 ; 4G033/AA03 ; 4G033/AA09
TI - REFRACTORY FOR REGENERATOR OF GLASS FURNACE
PA - TOSHIBA CERAMICS CO
IN - IMAI ISAO;EBINA MAKOTO;TERANISHI HISAHIRO
AP - JP19980132705 19980427
PR - JP19980132705 19980427
DT - WF
PD - 1999-11-09
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NPR - 1

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AN - 2000-109181 [10]
TI - Refractory for glass kiln regenerator - comprises sintered compact of magnesia rich spinel containing specific ratio of magnesia and alumina
AB - JP11310469 NOVELTY - The refractory for glass kiln regenerator with MgO/Al₂O₃ weight ratio of 40/60 or 60/40, is present in sintered compact of magnesia rich spinel clinker powder.
- USE - The refractory is used as checker brick in glass kiln regenerator.
- ADVANTAGE - Excels in SO-proof characteristic and hence prevents corrosion. Offers usage in areas having phosphorus and antimony components due to corrosion resist nature.
- (Dwg.0/0)
IW - REFRACTORY GLASS KILN REGENERATE COMPRISE SINTER COMPACT MAGNESIA RICH SPINEL CONTAIN SPECIFIC RATIO MAGNESIA ALUMINA
PN - JP11310469 A 19991109 DW200010 C04B35/66 004pp
IC - C04B35/66
MC - L01-C L02-E04
DC - L02
PA - (TOSF) TOSHIBA CERAMICS CO
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TI - REFRACTORY FOR REGENERATOR OF GLASS FURNACE

AB - PROBLEM TO BE SOLVED: To obtain refractory suitable for checker brick used for a regenerator additionally installed in a glass furnace by calcining magnesia-rich spinel clinker powder specified in a specific range of the weight content ratio of $\text{MgO}/\text{Al}_2\text{O}_3$.

- SOLUTION: This refractory is obtained by calcining magnesia-rich spinel clinker powder having a weight content ratio $\text{MgO}/\text{Al}_2\text{O}_3$ of (40:60)-(60:40), pref. (45:55)-(55:45) and is excellent in corrosion resistance even when the refractory contains phosphorus and/or antimonial contaminant, and is useful for a regenerator (esp. used for middle stage). The spinel clinker powder pref. contains ≥ 50 wt.% particles having a particle diameter of ≤ 1 mm and is calcined at about 1,600-1,700 deg.C for about 3 h. An increase in minuteness and compressive strength and the decrease of apparent porosity are actualized by mixing pure spinel clinker powder in which the weight ratio of $\text{MgO}/\text{Al}_2\text{O}_3$ is (20/80)-(40/60), pref. (25/75)-(35/65) and the particle diameter is ≥ 1 mm in a quantity of about 45-15 wt.%, with the refractory.

I - C04B35/66

PA - TOSHIBA CERAMICS CO LTD

IN - EBINA MAKOTO/MAI ISAO/TERANISHI HISAHIRO

ABD - 20000229

ABV - 200002

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